

CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE COLLINS RIVER WATERSHED

4.1 Background.

4.2. Characterization of HUC-10 Subwatersheds

4.2.A. 0513010701 (Collins River)

4.2.B. 0513010702 (Barren Fork River)

4.2.C. 0513010703 (Hickory Creek)

4.2.D. 0513010704 (Collins River)

4.1. BACKGROUND. This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
- ii.a. Description of facilities discharging to water bodies listed on the 1998 303(d) list
- iii. Description of nonpoint source contributions

The Collins River Watershed (HUC 05130107) has been delineated into four HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 1.1 beta (developed by Tetra Tech, Inc for EPA Region 4) released in 2000.

WCS integrates with ArcView® v3.2 and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

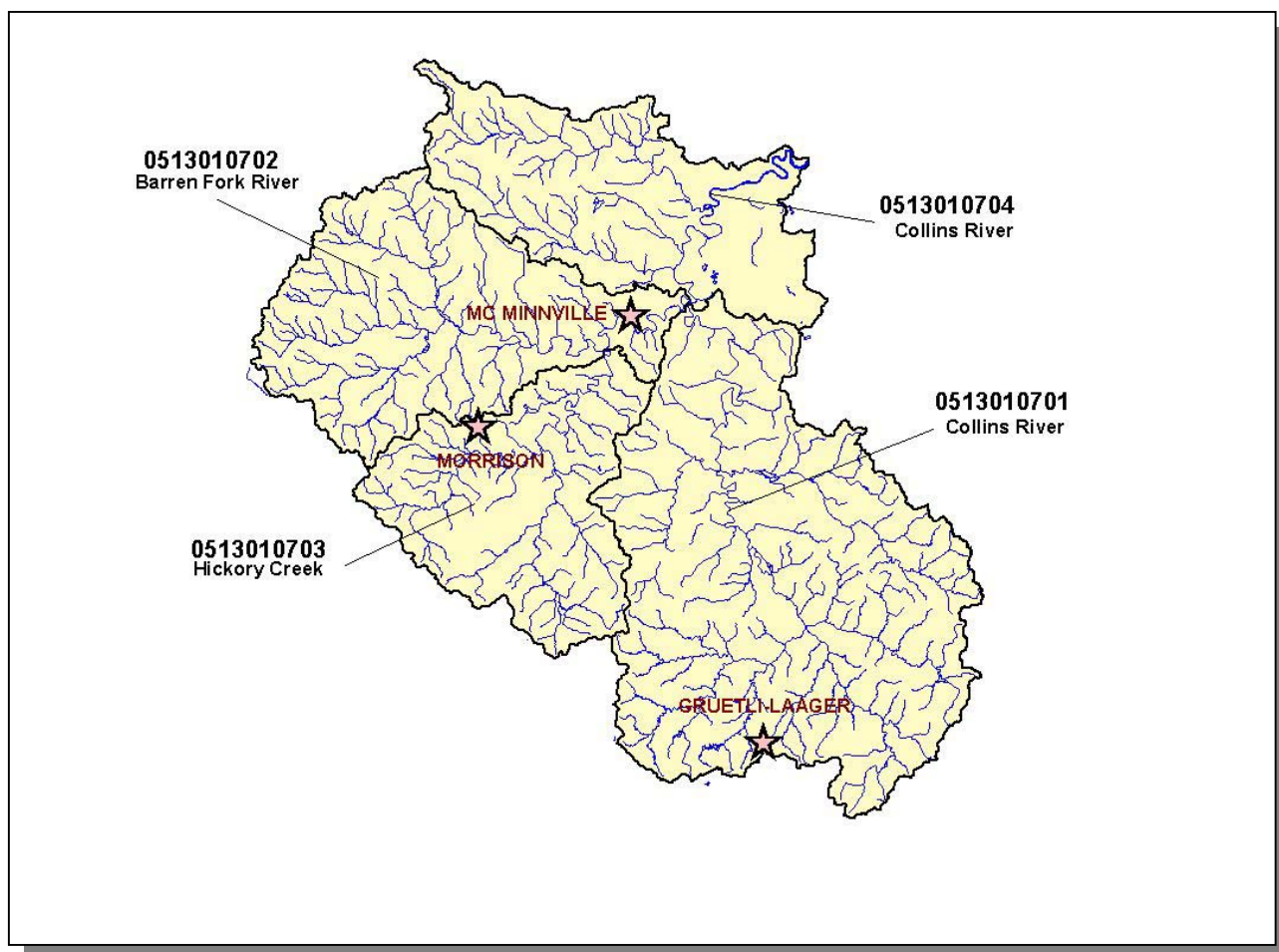


Figure 4-1. The Collins River Watershed is Composed of Four USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Gruetli-Laager, McMinnville, and Morrison are shown for reference.

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Collins River Watershed.

HUC-10	HUC-12
0513010701	051301070101 (Collins River)
	051301070102 (Big Creek)
	051301070103 (Savage Creek)
	051301070104 (Collins River)
	051301070105 (Scott Creek)
	051301070106 (Spring Creek)
	051301070107 (Collins River)
0513010702	051301070201 (Bullpen Creek)
	051301070202 (Duke Creek)
	051301070203 (Barren Fork River)
	051301070204 (Barren Fork River)
0513010703	051301070301 (Little Hickory Creek)
	051301070302 (West Fork Hickory Creek)
	051301070303 (Hickory Creek)
0513010704	051301070401 (Collins River)
	051301070402 (Charles Creek)
	051301070403 (Mountain Creek)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.